

### NExTNAS-CNS Workshop 20-21 August 2003



NASA Exploratory Technologies for the NAS

Communications/Navigation/Surveillance Technologies

Research and Development

### Workshop Overview and Objectives

Bob Kerczewski - NASA Glenn Research Center

216-433-3434 RKerczewski@nasa.gov 20 Alugust 2003

Kerczewski 20 Aug 2003





#### NASA's NExTNAS Initiative:

Develop and demonstrate NASA exploratory technologies for the National Airspace System to meet projected growth in passenger demand beyond 2010

With the NExTNAS-CNS Project, NASA is responding to

- · recommendations from the US Aerospace Commission,
- the US aviation community (ICNS 2001, 2002, 2003),
- and studies and analyses that

demonstrate the need for an advanced CNS infrastructure to address system deficiencies and support the transition to the future NAS.





#### NASA's Airspace Systems Program:

Enable major increases in the capacity and mobility of the air transportation system through development of revolutionary concepts for operations & vehicle systems



#### The NExTNAS Initiative:

Develop technologies, procedures, and information infrastructure to enable further system capacity/throughput improvements



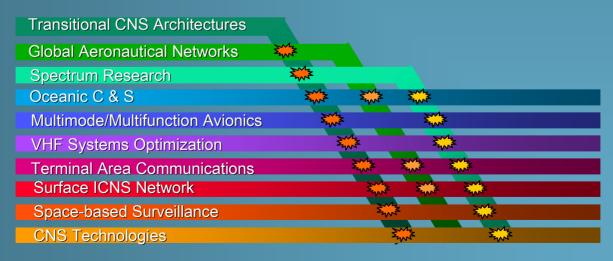




#### The NExTNAS-CNS Project:

Initiate the transition of today's CNS systems into a high-performance network-centric digital infrastructure to support the transformation of the National Airspace System









#### NExTNAS-CNS Planning Activities

- Time constrained compared to a typical project (we were expecting an FY 05 start)
- But previous work in several projects has provided a lot of information to build upon, such as requirements analyses, architecture studies, etc

AATT – Advanced Communications for Air Traffic Management; AvSP – Weather Information Communications; VAMS – CNS Modeling; SATS – Airborne Internet

 Three Integrated CNS Conferences and Workshops (2001, 2002, and 2003) have provided significant inputs

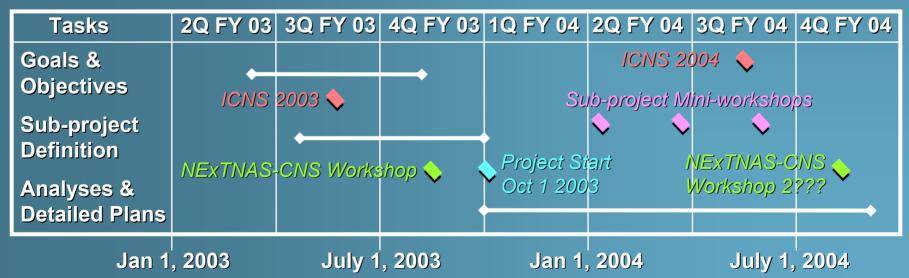




#### NExTNAS-CNS Planning Activities

The NExTNAS-CNS Project being presented today is the culmination of these inputs, but is also a work-in-progress

Today's workshop is a continuation of the planning effort



Kerczewski 20 Aug 2003





### NExTNAS-CNS Workshop Objectives:

- Present background of the NASA Airspace Systems Program and overviews of relevant FAA initiatives
- Present an overview of the current NExTNAS-CNS Project plan
- Gather input from the aviation community
  - Comments and suggestions on plan content
  - Inputs on approach, outputs, etc
- Present and identify opportunities for participation
  - Stimulate collaboration, partnerships, and other potential future relationships (contractual and otherwise)